



APPENDIX C

CONSTRUCTION STORM WATER BMP PERFORMANCE STANDARDS

INDEX

APPENDIX C

CONSTRUCTION STORM WATER BMP PERFORMANCE STANDARDS

1. Site Management Requirements.. .. .	3
2. Performance Standards.... ..	4
3. Seasonal Requirements	5
A. Dry Season Requirements	5
B. Rainy Season Requirements.. .. .	6

ATTACHMENTS TO APPENDIX C

Attachment C1: Example Construction Best Management Practices and General Pollution Prevention BMPs Requirements

CONSTRUCTION STORM WATER BMP PERFORMANCE STANDARDS

Those projects that have been determined to require construction BMPs in Steps 1 and 2 of the Manual must identify the construction BMPs to be implemented in accordance with the performance standards in this section. The construction BMPs must be identified in a Storm Water Pollution Prevention Plan or Construction Storm Water Management Plan for projects disturbing more than or less than 5 acres, respectively (to be reduced to 1-acre on March 10, 2003). These plans must be prepared in accordance with the guidelines in Appendix A of the Manual (Form 5503 and Form 5504, as applicable)

It is the responsibility of the property owner and/or contractor to select, install and maintain appropriate BMPs. A list of construction BMPs is provided for reference in Attachment C1 to this Appendix. BMPs must be installed in accordance with an industry recommended standard or in accordance with the requirements of the State General Construction Permit. More information about BMPs is provided in the Model Construction Program for San Diego Copermittees, the City of Los Angeles "Reference Guide for Storm water Best Management Practices," State Storm Water BMP Manuals, and Caltrans Standard BMP handbook.

BMP requirements differ between the wet season (Oct. 1 – Apr. 30) and the dry season (May 1 – Sept. 30), the type of the project and topography of the site, as described below.

1. Site Management Requirements

Construction is a dynamic operation where changes are expected. Storm water BMPs for construction sites are usually temporary measures that require frequent maintenance to maintain their effectiveness and may require relocation, revision and reinstallation, particularly as project grading progresses. Therefore, owner/contractor self- inspections are required. They shall be performed by the owner's/contractor's Qualified Contact Person specifically trained in storm water pollution prevention site management and storm water BMPs, including the installation and maintenance of sediment and erosion control measures. Additional qualified persons may assist with the inspection activities under the direction of the Qualified Contact Person. A Qualified Contact Person is required for all sites during both wet and dry weather conditions.

There are four primary purposes of the self-inspections conducted by owners and contractors:

- _ To ensure that the owners/contractors take full responsibility for managing storm water pollution caused by their activities.
- _ To ensure that storm water BMPs are properly documented and implemented and are functioning effectively.
- _ To identify maintenance (e.g., sediment removal) and repair needs.
- _ To ensure that the project proponents implement their storm water management plans.

A self-inspection checklist, noting date, time, conditions and inspection date, must be kept on-site and made available for City or agency inspection, if requested. Self-inspections must be performed by a Qualified Contact Person according to the following schedule:

- _ Daily forecasting at all times
- _ At 24-hour intervals during extended rainfall events
- _ Daily evaluations as earth moving/grading is being conducted during the wet season
- _ Weekly (every 7 days) in the dry season as earth moving/grading is progressing

Storm water pollution prevention site management requirements include:

A. A qualified person who is trained and competent in the use of BMPs shall be on site daily, although not necessarily full time, to evaluate the conditions of the site with respect to storm water pollution prevention. This qualified contact person shall represent the contractor/ owner on storm water issues.

B. The qualified person shall implement the conditions of the Storm Water Pollution Prevention Plan/Construction Storm Water Management Plan, contract documents and/or local ordinances with respect to erosion and sediment control and other waste management regulations.

C. The qualified person is responsible for monitoring the weather and implementation of any emergency plans as needed. The weather shall be monitored on a 5-day forecast plan and a full BMP protection plan shall be activated when there is a 40% chance of rain.

D. The qualified person is responsible for overseeing any site grading and operations and evaluating the effectiveness of the BMPs. This person shall modify the BMPs as necessary to keep the dynamics of the site in compliance. This person or other qualified persons are responsible for checking the BMPs routinely for maintenance and documenting the BMPs being implemented.

2. Performance Standards

The City of Chula Vista will evaluate the adequacy of the owner's/contractor's site management for storm water pollution prevention, inclusive of BMP implementation, on construction sites based on performance standards for storm water BMPs. Poor BMP practices shall be challenged. Performance standards shall include:

- A. No measurable increase of pollution (including sediment) in runoff from the site.
- B. No slope erosion.
- C. Water velocity moving offsite must not be greater than pre-construction levels.

A site will be considered inactive if construction activities have ceased for a period of 7 or more consecutive calendar days. At any time of year, an inactive site must be fully protected from erosion and discharges of sediment. It is also the owner's/contractor's

responsibility at both active and inactive sites to implement a plan to address all potential non-storm water discharges.

Regardless of any inspections conducted by the City, property owners or contractors are required to prevent any construction-related materials, wastes, spills or residues from entering a storm water conveyance system.

3. Seasonal Requirements

A. Dry Season Requirements (May 1 through September 30) include but are not limited to:

A. Perimeter protection BMPs must be installed and maintained to comply with performance standards (above).

B. Sediment control BMPs must be installed and maintained to comply with performance standards (above).

C. BMPs to control sediment tracking must be installed and maintained at entrances/exits to comply with performance standards (above).

D. Material needed to install standby BMPs necessary to completely protect the exposed portions of the site from erosion, and to prevent sediment discharges, must be stored on site. Areas that have already been protected from erosion using physical stabilization or established vegetation stabilization BMPs as described below are not considered to be “exposed” for purposes of this requirement.

E. The owner/contractor must have an approved “weather triggered” action plan and have the ability to deploy standby BMPs as needed to completely protect the exposed portions of the site within 24 hours of prediction of a storm event (a predicted storm event is defined as a forecasted, 40% chance of rain). On request, the owner/contractor must provide proof of this capability that is acceptable to the City of Chula Vista.

F. Deployment of physical or vegetation erosion control BMP’s must commence as soon as grading and/or excavation is completed for any portion of the site. The project proponent may not continue to rely on the ability to deploy standby BMP materials to prevent erosion of graded areas that have been completed.

G. The area that can be cleared or graded and left exposed at one time is limited to the amount of acreage that the owner/contractor can adequately protect prior to a predicted rainstorm.

H. A washout area shall be designated and maintained for materials, such as, concrete, stucco, paint, caulking, sealants, drywall plaster, etc.

I. Properly protected, designated storage areas are required for materials and wastes.

J. Remnant trash and debris shall be removed and/or properly stored/disposed of daily.

K. Storage, service, cleaning and maintenance areas for vehicles and equipment shall be identified and protected accordingly.

L. Materials for spill control/containment must be stockpiled onsite.

M. Non-storm water discharges must be eliminated or controlled to the maximum extent practicable.

Requirement “G” will require grading to be phased at larger sites. For example, it may be necessary to deploy erosion and sediment control BMPs in areas that are not completed but are not actively being worked before additional grading is done.

B. Rainy Season Requirements (October 1 through April 30) include but are not limited to:

A. Perimeter protection BMPs must be installed and maintained to comply with performance standards (above).

B. Sediment control BMPs must be installed and maintained to comply with performance standards (above).

C. BMPs to control sediment tracking must be installed and maintained at site entrances/exits to comply with performance standards (above).

D. Material needed to install standby BMPs necessary to completely protect the exposed portions of the site from erosion, and to prevent sediment discharges, must be stored on site. Areas that have already been protected from erosion using physical stabilization or established vegetation stabilization BMPs as described below are not considered to be “exposed” for purposes of this requirement.

E. The owner/contractor must have an approved “weather triggered” action plan and have the ability to deploy standby BMPs as needed to completely protect the exposed portions of the site within 24 hours of prediction of a storm event (a predicted storm event is defined as a forecasted, 40% chance of rain). On request, the owner/contractor must provide proof of this capability that is acceptable to the City of Chula Vista.

F. Deployment of physical or vegetation erosion control BMPs must commence as soon as grading and/or excavation is completed for any portion of the site. The owner/contractor may not continue to rely on the ability to deploy standby BMP materials to prevent erosion of graded areas that have been completed.

G. The area that can be cleared or graded and left exposed at one time is limited to the amount of acreage that the owner/contractor can adequately protect prior to a predicted rainstorm.

- H. A washout area shall be designated and maintained for materials, such as, concrete, stucco, paint, caulking, sealants, drywall plaster, etc.
- I. Properly protected, designated storage areas are required for materials and wastes.
- J. Remnant trash and debris shall be removed and/or properly stored/disposed of daily.
- K. Storage, service, cleaning and maintenance areas for vehicles and equipment shall be identified and protected accordingly.
- L. Materials for spill control/containment must be stockpiled onsite.
- M. Non-storm water discharges must be eliminated or controlled to the maximum extent practicable.
- N. Erosion control BMPs must be upgraded if necessary to provide sufficient protection for storms likely to occur during the rainy season.
- O. Perimeter protection and sediment control BMPs must be upgraded if necessary to provide sufficient protection for storms likely to occur during the rainy season.
- P. Adequate physical or vegetation erosion control BMPs must be installed and established for all graded areas prior to the start of the rainy season. These BMPs must be maintained throughout the rainy season. If a selected BMP fails, it must be repaired and improved, or replaced with an acceptable alternate as soon as it is safe to do so. The failure of a BMP shows that the BMP, as installed, was not adequate for the circumstances in which it was used and shall be corrected or modified as necessary. Repairs or replacements must therefore put a more effective BMP in place.
- Q. All vegetation erosion control must be established prior to the rainy season to be considered as a BMP.
- R. The amount of exposed soil allowed at one time shall not exceed that which can be adequately protected by deploying standby erosion control and sediment control BMPs prior to a predicted rainstorm.
- S. A disturbed area that is not completed but that is not being actively graded must be fully protected from erosion if left for 7 or more calendar days. The ability to deploy standby BMP materials is not sufficient for these areas. BMPs must actually be deployed.